

PRR5 Antibody (C-Terminus) Rabbit Polyclonal Antibody Catalog # ALS14819

Specification

PRR5 Antibody (C-Terminus) - Product Information

Application Primary Accession Reactivity Host Clonality Calculated MW IF, WB <u>P85299</u> Human, Mouse Rabbit Polyclonal 43kDa KDa

PRR5 Antibody (C-Terminus) - Additional Information

Gene ID 55615

Other Names Proline-rich protein 5, Protein observed with Rictor-1, Protor-1, PRR5, PROTOR1

Target/Specificity Human PRR5. PRR5 antibody is predicted to not cross-react with other Protor protein family members.

Reconstitution & Storage Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions PRR5 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

PRR5 Antibody (C-Terminus) - Protein Information

Name PRR5

Synonyms PROTOR1

Function

Subunit of mTORC2, which regulates cell growth and survival in response to hormonal signals. mTORC2 is activated by growth factors, but, in contrast to mTORC1, seems to be nutrient-insensitive. mTORC2 seems to function upstream of Rho GTPases to regulate the actin cytoskeleton, probably by activating one or more Rho-type guanine nucleotide exchange factors. mTORC2 promotes the serum-induced formation of stress-fibers or F-actin. mTORC2 plays a critical role in AKT1 'Ser-473' phosphorylation, which may facilitate the phosphorylation of the activation loop of AKT1 on 'Thr-308' by PDK1 which is a prerequisite for full activation. mTORC2 regulates the phosphorylation of SGK1 at 'Ser-422'. mTORC2 also modulates the phosphorylation of PRKCA on 'Ser-657'. PRR5 plays an important role in regulation of PDGFRB expression and in modulation of platelet-derived growth factor signaling. May act as a tumor suppressor in breast cancer.



Tissue Location

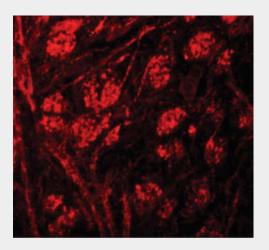
Most abundant in kidney and liver. Also highly expressed in brain, spleen, testis and placenta. Overexpressed in several colorectal tumors.

PRR5 Antibody (C-Terminus) - Protocols

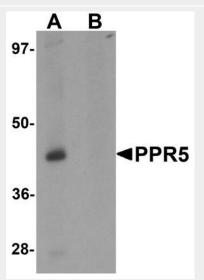
Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PRR5 Antibody (C-Terminus) - Images



Immunofluorescence of PPR5 in mouse brain tissue with PPR5 antibody at 20 ug/ml.



Western blot analysis of PRR5 in SK-N-SH cell lysate with PRR5 antibody at 1 ug/ml in (A) the...



PRR5 Antibody (C-Terminus) - Background

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PRR5 Antibody (C-Terminus) - References

Ota T.,et al.Nat. Genet. 36:40-45(2004). Wan D.,et al.Proc. Natl. Acad. Sci. U.S.A. 101:15724-15729(2004). Dunham I.,et al.Nature 402:489-495(1999). Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases. Johnstone C.N.,et al.Genomics 85:338-351(2005).